

Title (en)

Process and apparatus for controlling the blow down of distillation residue from contaminated liquids

Title (de)

Verfahren und Vorrichtung zur Steuerung der Ausföderung des Rückstandes bei der Destillation von verunreinigten Flüssigkeiten

Title (fr)

Procédé et dispositif pour contrôler la décharge du résidu de distillation de liquide contaminé

Publication

EP 0627249 B1 19970312 (DE)

Application

EP 94250132 A 19940518

Priority

DE 4318936 A 19930602

Abstract (en)

[origin: EP0627249A1] Process for extracting the residue resulting from the distillation of polluted industrial waste water and solvents by means of mechanical vapour compression, in which the point in time of the extraction is determined by using process parameters. The process is characterised by the fact that after the condensation and cooling of the vapours, the temp. of the distillate is continuously measured and on exceeding a predetermined maximum value, the extraction of the residue is carried out. Also claimed is an apparatus for carrying out the above process. Appts. comprises an evaporator (1), to which polluted goods (3) are fed via a recuperator (9) and residue (6) is withdrawn via a drain valve (5). In the evaporator there is a tubular heat exchanger (7), that is connected via pipe (16) with the mechanical compressor (15) and via a further pipe (8) with the recuperator. The vapour produced in the evaporator (1) is sucked via a vapour dome (12) and a pipe (13) from the compressor (15). The appts. is characterised by the fact that a temp. measuring device (18) is situated in the region of the recuperators (9) in pipe (22) for the extraction of the distillate. The device (18) is connected to an optical or acoustic display device.

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B01D 1/28; **B01D 3/42**

IPC 8 full level

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CPC (source: EP)

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Cited by

KR101299747B1; JP2015016472A; CN108778439A; EP3405270A4; RU2750595C2; IL260692A; IL260692B2; US11885760B2; US11285399B2; WO2004043566A3; US11826681B2; US11884555B2; WO2017127426A1; US11117070B2

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